IIP Release notes

Version IIP 1.6.1, July 22, 2024

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Chapter 1. Introduction

This document contains a high-level overview of changes between the different published IIP versions. For up to date information, please also see the IIP website Information Integration Platform (IIP).

When planning for updates, please also consider the Support policy, Externally imposed limitations and [Constraints of the latest IIP version]

1.1. Version history

Date	Comment
July 22, 2024	Release notes for IIP 1.6.1
July 17, 2024	Release notes for IIP 1.6.0
May 15, 2024	Release notes for IIP 1.5.0
March 11, 2024	Release notes for IIP 1.4.0
June 11, 2023	Release notes for IIP 1.3.0 and previous versions back to 1.2.0 (information transferred from website to this document)

1.2. Support policy

Support for the IIP is provided under the general CLE terms for its provided software:

> Basic technical support is available for part of the programs and the submission standards, please see the Contacts page. While every effort is made to provide timely technical support no guarantees whatsoever are implied that technical support will be provided or that technical support, when provided, will be accurate.
>
> — Source: https://esubmission.croplifeeurope.eu/legal/eula/

Therefore, CLE recommends to

- do a thorough testing and evaluation of the IIP in combination with the inhouse environment and data
- establish additional support when using the IIP in business-critical and time-critical processes.

1.2.1. Supported IIP versions

Technical support is provided for the latest released IIP version, with a transition period of three month after release date, where also the previous IIP version is still supported.

1.2.2. Supported connected IUCLID6 versions

The IIP is aimed to be backwards compatible for IUCLID6 releases, as long as ECHA does not change the basic principles of the IUCLID6 format and the REST API. We will provide support for the latest released IIP versions connected to the current major IUCLID6 release (including intermediate minor versions), with a transition period of 3 month after the release of a new major IUCLID6 version.

Chapter 2. Known limitations

2.1. Externally imposed limitations

- No support for connecting to IUCLID6 instances on the ECHA cloud (this is due to the official ECHA policies, not due to technical constraints)

2.2. Constraints of the latest IIP version 1.6.0

The IIP is in the process of further development and new functionalities are being added. The following is a list of high-level constraints of the current version. The list is expected to be reduced in future versions, dependent on the decision of the IIP project team.

2.2.1. IIP Web frontend

- No creation / copying / deletion of entities / documents in the frontend
- Flat display of documents, without tree structure
- No support for working contexts (the complete list of documents is shown)
- No support for inherited templates, the list of documents in a dataset is displayed without documents from a linked template. However, during IEF import, references to documents inherited from a template can be resolved.
- No application of dynamic rules (fields dependend on values in other fields). This is currently not made dynamically available to external applications in a similar manner as the IUCLID format
- No execution of a validation report
- No Dossier display or creation - all operations work on datasets only

2.2.2. IEF import and job processing

- No creation of substances / mixtures / templates via IEF import (only documents within those entities)
- The IIP applies a strict check on the provided job data and refuses to apply jobs with one of the following value errors
    - picklist values can not be found or are obsolete in the current IUCLID format. The IIP supports a partial substring match with the decode values of the IUCLID picklists, provided that the match is unique.
    - cross-references to documents or entities cannot be resolved to **exactly** one item. Please check the latest IEF manual to see the options on how to supply information for cross-references upon import without using a UUID.
    - target of cross-references (field of type Docref) do not exist in IUCLID. When the target document is itself created by a job it can help to run the same job list multiple time, first creating the target document, second the other document with the reference to the target document. Hoewver, documents that are part of circular references (this has been found in

real data!) cannot be created with the current job processing, because there will be alsways a document with unresolved docrefs.
In future, a two-stage processing will be implemented, where first documents without cross-references are created, and then the cross-references are added as update.

- There is currently no support to create cross-references (with field of type docref) from a document in a template to a document in a dataset, where the dataset has this template inherited. The reason is that currently the documents from inherited templates are not considered / displayed, when opening a dataset.
- Editing / Correction of job data in the IIP web frontend prior to (re-)execution is not possible
- The processing of an IEF file based on a previous major IUCLID format may fail, when format changes have occured that the IIP cannot handle. The IIP does not contain any migration support for IEF files to newer IUCLID formats. Consequently, IEF files should always be based on the latest major IUCLID version.

2.2.3. IEF import: Limitations with nested information without proper parent information

There is a specific known limitation with respect to tables within deeply nested blocks: Consider a repeating block B consisting of a single field A an a further nested table T, and the field A is not mandatory. Then, the IEF format cannot distinguish between the following scenarios:

- Scenario 1: Three blocks B, with table T filled with one row each (field A is not filled)
- Scenario 2: One block B, with table T filled with three rows, with the same table data as in Scenario 1 (field A is not filled)

As no value is provided for field A, the IEF format looks identical for both scenarios and the IEF processing cannot decide on whether to create one or three blocks - and it cannot even detect that such a situation may occur. Currently, the IIP will import according to Scenario 2.

Very few of those scenarios have been detected in real IUCLID6 data, for example in OHT 85-5 ENDPOINT_STUDY_RECORD.ResiduesInRotationalCrops in the subsection MaterialsAndMethods.StudyUsePattern.TrialInformation. Here the field TrialIdNo was only provided once for one block, followed by tabular data. For further blocks no TrialIdNo was given, but tabular data existed. Even if we could intercept such scenarios during IEF import, there is currently no way to detect the right scenario by the IIP automatically. As an advice, it is always recommended to not let nested information without any parent information, like here the TrialIDNo - or as in the general example above, the field A. Then, the location of the nested information can be uniquely determined by the IIP.

2.2.4. IUCLID format support

- The IUCLID concept of CUSTOM_SECTION, that alters document definitions dependent on the working context, is not applied. The IIP supports the core definition only.
- ARTICLE and CATEGORY as entities not relevant for PPP are not considered in the entity selection combobox. They could likely be enabled with little additional effort, if needed.
- IIP has been developed and tested with the focus on PPP submissions, but should work with all

supported entities. The IIP does not contain any hardcoded list of entities that are specifically supported, but the IUCLID format is retrieved dynamically. Therefore, the IIP does normally not require to be updated for a new IUCLID6 release .

Chapter 3. Version 1.6.1 (July 22, 2024)

The IIP version 1.6.1. is a hotfix for version 1.6.0:

- Bugfix for an error that occured during execution of IEF files for inventory entries
- Removal of the constraint that import jobs with the same name are discarded and only the first job was accepted and displayed in the job list. This led to the effect that x import jobs were in the IEF file(s) and potentially less jobs than x were displayed in the job list. With version 1.6.1. this constraint is removed, now all jobs from the IEF file(s) are displayed and the user decides about duplicate handling.

Chapter 4. Version 1.6.0 (July 17, 2024)

The IIP version 1.6.0 was developed and tested with IUCLID6 v8.0.1.

Please note that this is an interim version in a serious of released planned until mid 2025. Not all available functionality is fully implemented and limitations are known and adressed. If you feel that IIP shows erraneous behavior, please make sure to file a bug report.

4.1. Main new features

- Support of attachment upload, with both Drag/Drop or file selection. Multi-selection is supported in both cases for multi-attachment fields.
- An attachment download link has been added to attachment fields
- Support for multi-docref fields (document references to documents in the same dataset, as well as references to other entities, like LITERATURE). The base multi-docref field (as displayed in a block or table) can be expanded to a table of docref values using the three-dot button at the right side of the field area, to display the full list of values. The button is also a status indicator whether the field has zero or one (not filled), or two or more values (filled). Limitations:
  - Pasting is not yet support in the table for multi-docref values.
  - There is no value assistance / advanced editor for docref values, when the typing / pasting of values does not resolve to a single target entity.
- The usage of wildcards in any docref field is supported as follows (identical to the Advanced Search masks in the IUCLID user interface):
  - The search string `foo` or `foo*` will match to IUCLID values starting with `foo`
  - The search string `foo or *foo` will match to IUCLID values containing `foo` anywhere in the value
  - To enforce a full match to the complete string, enclose the search string in double quotes `"foo"`
  - The search is case-insensitive, `foo` or `FOO` or `Foo` will match all the possible upper or lowercase sequences of `foo`
- IEF XML export and import. The IIP now supports IEF in XML format as additional export / import format. Stakeholders can now use export in order to generate and validate test data for the creation of their data pipelines to autogenerate (part of) the XML file from inhouse data sources.
  - When exporting as XML, a ZIP file will be generated, when more than two entities are exported. In contrast to IEF CSV, for IEF XML every entity is represented by one XML file. It is not possible to combine multiple entities into one IEF XML file.
  - Attachments - if present - are included in the export and are placed in a subfolder "attachments".
  - The required XSD are exported with the entities. The XSDs are autogenerated from the IUCLID format and are subject of change, when the IUCLID format changes. Therefore, IEF XML files may not import correctly in a later IUCLID version; this is the same for the IEF CSV

files.

- IEF XML import. In order to import XML data, place a ZIP file with the XML files in the appropriate import folder, as with IEF CSV files. Place any attachments in a subfolder in the ZIP and reference accordingly (use export to generate examples). The XSDs can be linked and supplied, but are optional. Once uploaded to the correct directory the XML (ZIP) files and CSV IEF files appear together in the job import list displayed in IIP
    - As of now there is no format manual for the XML import. Please use the XSD and exported sample data as description for the import syntax. For specific field syntax, see the IEF CSV manual (e.g. for supplying search values for docref fields)
    - Note: Alternatively, single XML files can also be uploaded and imported one by one.
- Separation of the unit for the IUCLID quantity and range field types. Consequences:
    - In both tables and blocks the previously single field now is displayed as two separate fields; in tables adjacent in one row, in blocks in vertical sequence.
    - The existing IEF CSV format changes accordingly, the IEF CSV format changes to version 1.1. and a new IEF manual has been supplied. The data for quantity and range has now to be supplied in separate values. The IIP is downwards compatible to also consume the previous IEF version 1.0, but make sure to upgrade your data generation pipelines
    - In the XML import, the separatioon is also reflected.
- Operations on blocks have been introduced:
    - Add item below
    - Add item before
    - Clone item
- The listings in the left pane support search for the UUID of an entity
- The displayed UUID can now be copied to clipboard using a small icon to its left ("Copy reference")
- The name of a document perviously being editable in the caption bar is now being displayed as the very first field in the document pane, and is editable as any other field.
- For docref fields, the error messages have been improved. The error messages now distinguishes between 0 hits and 2 or more hits.
- Further smaller display enhancements
- Various bug fixes

Chapter 5. Out of scope in this release (planned for future releases)

- "Full-editing" completion:
  - Data protection support on field or table row level
  - Support for multi-picklists with / without remarks
  - Advanced editor for hierarchical picklists
  - Blockref field editing (e.g. in 85-5) and value assistance
- Performance improvements on large tables

5.1. Known issues (fixes planned)

- Multi-docref: Complete alignment of table to default table behavior (e.g. Copy/Taste)
- Infrequent sync issues of error status of field when changing between normal and maximized state (red versus white state)
- Keyboard navigation is not fully operational in all cases
- Most known issues of official release 1.5.0 still present (see below)
- Note: The data on the import share is not cleaned up by IIP. Make sure to clean up the export and import share periodically.

Chapter 6. Version 1.5.0 (May 15, 2024)

The IIP version 1.5.0 was developed and tested with IUCLID6 v8.0.1

6.1. Main new features

- IUC-911 - dataprotection - display as block for blocks and single fields
- IUC-904 - Advanced editor for text in tables
- IUC-728 Indicate picklist fields with obsolete picklist value
- IUC-151 Datagrid: Correct display of attachments in tables - display as download-link
- IUC-920 Make entities searchable via UUID
- IUC-927 Names of documents are now editable
- IUC-933 Show UUID for docRefs with empty name attribute
- IUC-935 Make displayed UUID copyable
- Icons for datatype in column header
- Misc smaller improvement
- Misc bugfixes

6.2. Known issues of this release

Most issues of version 1.4.0 (see below) still exist in version 1.5.0 and are scheduled for later resolution.

Chapter 7. Version 1.4.0 (March 23, 2024)

The IIP version 1.4.0 was developed and tested with IUCLID6 v7.x.

IUCLID6 v8.x (being available as alpha versions at the time of release) is not fully supported with this release due to a change in the mapping of the confidentiality information. A new IIP version will be released in early May after the official IUCLID6 v8 release.

7.1. Main new features

- Navigation and display as Excel-like forms
  - Support of Keyboard navigation (see below for details), few Mouse movements or clicks required
- Change of display styling for blocks
  - Fields in blocks are now displayed / considered as a table with labels and one value column. This highlights the possibility for the pasting of values into adjacent fields in the same block
- Editing / Pasting of fields (in tables or blocks)
  - Editing, similar to Excel
  - Pasting into adjacent fields in a table
  - Pasting into adjacent fields in a blocks from table column in Excel / Word
- Copying a selected field value with Ctrl-C
- Value assistance support
  - Value assistance for picklists, including typeahead / in-string matching logic
  - Matching for picklists starts already with 1 character (e.g. type "1" and press ENTER to select "1 (reliable without restriction)".
    - For data entry: If the entered substring matches one unique picklist value, the Return key will complete the value and move to the next field.
    - For pasting: If the pasted substring matches one unique picklist value, the value will be completed and selected
    - The comparison is deliberately case-insensitive
  - Advanced editors for ranges and quantities
  - Toggle to switch off value assistance support to hide overlay windows, for experienced users (default: on)
- Typing / pasting "other" prefix is optional for open picklist values; then other picklist values are indicated with styling
- Improvement of block creation in nested documents
  - Note:
    - IIP will delete completely empty blocks upon saving
    - For every nested and repeatable block in the IUCLID format definition, the IIP will

initially show one block even if there is no data in there, so initial data can be entered without first creating a block

- Numerous smaller improvements
- Numerous smaller bug fixes

7.2. Known issues of this release

- When turning on the advanced editor with the hotkey Strg-Q and not the mouse, the editor will not be displayed in the field currently in focus, but only in the subsequent field in focus ○ Note: The toggle for advanced editors currently also includes the picklist support. In a future version, the toggle will only influence the advanced editors having the small overlay window. The picklist value assistance will always be present.
- Richtext fields behave slightly different in terms of navigation and selection in the document pane
- The pasting of texts into the fields of the advanced editor (e.g. remarks) is not supported
- Keyboard navigation with arrow keys gets "stuck" at tables and richtext fields
- In tables, the Return key confirms the input to a field and moves to the field below. There is no keyboard command to confirm the entry and navigate to the field to the right (like arrow keys)
- The autocompletion of partial picklist values with the Return key does sometime not return the correct value. The selection from the displayed with Mouse or keyboard works always.
- Tab key in maximized text / richtext controls puts focus on wrong application element

Chapter 8. Version 1.3.0 (June 11, 2023)

This version has been developed and tested with IUCLID6 7.0.1.

8.1. IEF import

- **NEW:** Completion of remaining type support (Blockref, Docref, InventoryRef).
- **NEW:** minor remaining format support (hierarchical picklists)
- **IMP:** Validation against text lengths
- **IMP:** Update of rules for job Matching Candidate detection
- **IMP:** Enhanced validation rules (Example: lower values smaller than larger value in ranges)

8.2. Frontend

- **IMP:** Improved IUCLID connection dialog in the Administration perspective. Differentiation between available IUCLID instance (using URL) and authorized connection (using credentials). For details see chapter 4.5 in the installation manual.
- **NEW:** Introduction of context-specific online help (see (?)-Buttons), directing to the online help. As of now, information is provided on how matching candidates are determined. A future extension of the context-specific online help is planned.
- **FIX:** Correct display of open picklist prefix (not always "other:")
- **IMP:** Misc usability improvements

8.3. Misc

- **NEW:** Caching of IUCLID definitions and content (leads to improvement of performance). For details see IIP installation manual
- **IMP:** Multiple backend improvements (Example: IUCLID name request)

Chapter 9. Version 1.2.1 (March 5th, 2023)

9.1. IEF import

- **NEW:** Support of hierarchical picklists
- **NEW:** Addition of “sep=;” as first line in IEF exports, to ease viewing in Excel
- **FIX:** Bug fixes, eg. handling of document with empty names, Literature references with empty Study number

9.2. Frontend

- **IMP:** Various usability improvements

Chapter 10. Version 1.2.0 (Jan 20th, 2023)

This version has been developed and tested with IUCLID version 6.27.2. The next IIP release is scheduled for end of Q2 2023, after the next major IUCLID release in April 2023. However, this IIP version will also work with that new updated IUCLID version, provided that ECHA does not change core features of their API, which are not planned and announced as of now.

Major changes:

- **NEW:** Support of import (and export) of all document types and most entities (excluding the irrelevant entities site, contact, legal entity, article), including metadata and attachments
- **NEW:** Automatic suggestion of update candidates based on document type and document name.
- **NEW:** Finalization of CSV-type import and export format, now called IEF (IUCLID Exchange Format), made for automatic generation (not human-readable)
- A documentation of the format is available in a separate PDF. Please check your download page that you receive after registration.
- Completion of the validation of all field types (see details in the format PDF)
- **NEW:** Improved import and export handling, including blocking of application for long-lasting operations
- **NEW:** New error display for validation errors on the IEF file level (all jobs) and job level (right side). This display will be used also in future, when validating the input via the frontend (copy/paste)
- **NEW:** In Demo Mode custom annotations are used to tag documents for optional later deletion
- **NEW:** Various smaller improvements to raise usability and robustness
- **NEW:** A test suite for the IUCLID format used in future internally by us for every new release.